



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

15223-10-1007

Alligator

Product group: Vinyl - Floor coverings / Wall coverings



Republic Floor GmbH
Lise-Meitner Str. 1
82152 Krailling



Product qualities:



Köttner

Helmut Köttner
Scientific Director
Freiburg, 02 February 2026



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The SHI Database is the first and only database for construction products whose comprehensive processes and data accuracy are regularly verified by the independent auditing company SGS-TÜV Saar





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SHI Product Assessment 2024

Since 2008, Sentinel Holding Institut GmbH (SHI) has been establishing a unique standard for products that support healthy indoor air. Experts carry out independent product assessments based on clear and transparent criteria. In addition, the independent testing company SGS regularly audits the processes and data accuracy.

Criteria	Product category	Assessment
SHI Product Assessment		Indoor Air Quality Certified
Valid untill: 27 January 2027		



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QNG - Qualitätssiegel Nachhaltiges Gebäude

The Qualitätssiegel Nachhaltiges Gebäude (Quality Seal for Sustainable Buildings), developed by the German Federal Ministry for Housing, Urban Development and Building (BMWSB), defines requirements for the ecological, socio-cultural, and economic quality of buildings. The Sentinel Holding Institut evaluates construction products in accordance with QNG requirements for certification and awards the QNG ready label. Compliance with the QNG standard is a prerequisite for eligibility for the KfW funding programme. For certain product groups, the QNG currently has no specific requirements defined. Although classified as not assessment-relevant, these products remain suitable for QNG-certified projects.

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien	2.2 Resilient floor coverings – including multilayer systems	VOC / Emissions / hazardous substances / polycyclic aromatic hydrocarbons (PAH) / SVHC / heavy metals	QNG ready

Verification: Herstellererklärung vom 6.2.2025. EPH-Prüfberichte Nr. 2123071/2024/2 vom 03.09.2024. Konformitätserklärung vom 27.01.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.



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DGNB New Construction 2023

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings. The 2023 version sets high standards for ecological, economic, socio-cultural, and functional aspects throughout the entire life cycle of a building.

Criteria	Assessment
ENV1.1 Climate action and energy (*)	May positively contribute to the overall building score
Verification: EPD 23.02.2024	

Criteria	Assessment
SOC1.3 Sound insulation and acoustic comfort (*)	May positively contribute to the overall building score

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)	7 Floor coverings (Resilient floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Herstellererklärung vom 6.2.2025. EPH-Prüfberichte Nr. 2123071/2024/2 vom 03.09.2024. Konformitätserklärung vom 27.01.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	7 Floor coverings for indoor use (elastic floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3
Verification: Herstellererklärung vom 6.2.2025. EPH-Prüfberichte Nr. 2123071/2024/2 vom 03.09.2024. Konformitätserklärung vom 27.01.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			



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DGNB New Construction 2018

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	7 Floor coverings (Resilient floor coverings)	VOC / SVOC / hazardous substances	Quality level 3

Verification: Herstellererklärung vom 6.2.2025. EPH-Prüfberichte Nr. 2123071/2024/2 vom 03.09.2024. Konformitätserklärung vom 27.01.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.



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BNB-BN Neubau V2015

The Bewertungssystem Nachhaltiges Bauen (Assessment System for Sustainable Building) is a tool for evaluating public office and administrative buildings, educational facilities, laboratory buildings, and outdoor areas in Germany. The BNB was developed by the former Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and is now overseen by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

Criteria	Pos. / product type	Considered substance group	Quality level
1.1.6 Risiken für die lokale Umwelt	2a Elastic floor coverings – with and without bonded underlay or insulation layer	VOC / hazardous substances / heavy metals	Quality level 3

Verification: Herstellererklärung vom 6.2.2025. EPH-Prüfberichte Nr. 2123071/2024/2 vom 03.09.2024. Konformitätserklärung vom 27.01.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.



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EU taxonomy

The EU Taxonomy classifies economic activities and products according to their environmental impact. At the product level, the EU regulation defines clear requirements for harmful substances, formaldehyde and volatile organic compounds (VOCs). The Sentinel Holding Institut GmbH labels qualified products that meet this standard.

Criteria	Product type	Considered substances	Assessment
DNSH - Pollution prevention and control	Floor coverings (including associated adhesives and sealants)	Substances according to Annex C, formaldehyde, carcinogenic VOCs category 1A/1B	EU taxonomy compliant
Verification: Herstellererklärung vom 6.2.2025. EPH-Prüfberichte Nr. 2123071/2024/2 vom 03.09.2024. Konformitätserklärung vom 27.01.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.			



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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) is a UK-based building assessment system that evaluates the sustainability of new constructions, refurbishments, and conversions. Developed by the Building Research Establishment (BRE), the system aims to assess and improve the environmental, economic, and social performance of buildings.

Criteria	Product category	Considered substances	Quality level
Hea 02 Indoor Air Quality	Wood-based products	Emissions: Formaldehyde, TVOC, TSVOC, carcinogens	Exemplary quality

Verification: EPH-Prüfberichte Nr. 2123071/2024/2 vom 03.09.2024. Konformitätserklärung vom 27.01.2025 bestätigt die materielle Übereinstimmung mit dem geprüften Produkt.



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Product labels

In the construction industry, high-quality materials are crucial for a building's indoor air quality and sustainability. Product labels and certificates offer guidance to meet these requirements. However, the evaluation criteria of these labels vary, and it is important to carefully assess them to ensure products align with the specific needs of a construction project.



The International EPD® System is a globally recognised programme for the creation and publication of Environmental Product Declarations (EPDs). It enables companies to transparently present the environmental impacts of their products, based on international standards such as ISO 14025 and EN 15804 for construction products. The system provides a standardised method for assessing the environmental performance of products throughout their entire life cycle and promotes sustainable business practices and ecological transparency across various industries.



Products bearing the Sentinel Holding Institute QNG-ready seal are suitable for projects aiming to achieve the "Qualitätssiegel Nachhaltiges Gebäude" (Quality Seal for Sustainable Buildings). QNG-ready products meet the requirements of QNG Appendix Document 3.1.3, "Avoidance of Harmful Substances in Building Materials." The KfW loan program Climate-Friendly New Construction with QNG may allow for additional funding.



This product is SHI Indoor Air Quality certified and recommended by Sentinel Holding Institut. Indoor-air-focused construction, renovation, and operation of buildings is made possible by transparent and verifiable criteria thanks to the Sentinel Holding concept.



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Legal notices

(*) These criteria apply to the construction project as a whole. While individual products can positively contribute to the overall building score through proper planning, the evaluation is always conducted at the building level. The information was provided entirely by the manufacturer.

Find our criteria here: <https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfverfahren/kriterien%20f%C3%BCr%20Produkte>

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EIGENSCHAFTEN		STANDARDS	ALLIGATOR
Bodeneigenschaften	Gesamtdicke	EN ISO 24346	8mm
	Trittschalldämmung	EN ISO 24346	1mm Kork
	Verschleißschicht	EN ISO 24340	0,7mm
	Oberfläche		Black Emerald Coating
	Struktur und Fuge		EIR+Deep Bevelled edge
	Installationsmethoden / Velegeart		Uniclic Locking - Glueless Floating
	Nutzungsklasse	EN 10874 (von EN 16511)	23/34
Informationen zur Verpackung	Plankengröße (L*B)		1524mm*228mm
	Palettengröße (B*L*H)		980*1550*860mm
	Planken/Packung (Qm/Packung)		6 (2,08 m²)
	Gewicht/Packung		17,24kg
	Packung/Palette		68
	Qm/Palette		141
	Qm/Container		1985
	Palette/Container		14
	Packung/Container		952
	Gesamtgewicht/Palette		1225kg
Verhalten bei Hitze	Brandverhalten (CE)	EN 13501-1	Bfl-S1
	Wärmeleitfähigkeit	EN 12667	0,107 W/(m·K)
	Wärmedurchlasswiderstand	EN 12667	0,073 (m²·K)/W
	Schüsselung nach Wärmeeinwirkung	EN ISO 23999	≤ 0,5 mm
	Fußbodenheizung geeignet		Geeignet, max. 27°C
Technische Merkmale	Rutschfestigkeit (CE)	EN 13893	DS
	Rutschfestigkeit (Schiefe Ebene)	DIN 51130	R10
	Abriebfestigkeit	ISO 24338	> 7700 Umdrehungen (≥ 7000 für Klasse 34)
	Verbindungsfestigkeit	ISO 24334	LS: 2.4 kN/m, KS: 3.6 kN/m
	Stuhllollentest	ISO 4918	Bestanden (Typ W, > 25000 Umdrehungen)
	Möbelfußtest	EN ISO 16581	Bestanden
	Mikrokratztbeständigkeit	EN 16094	ΔR' = 1, MSR-B1
	Resteindruck	EN ISO 24343-1	0,05mm
	Schalldämmung	EN ISO 717-2	ΔLw = 20 dB
Schädliche Stoffe	Formaldehyde/VOC emissionen	EN 16516	E1 / VOC Frei
	Gehalt an Pentachlorophenol (PCP)	EN 14041, Anhang B	Bestanden
	Greenguard		Bestanden
	Phthalatefrei		Ja



HERSTELLERERKLÄRUNG

Hiermit bestätigen wir:



Republic Floor GmbH

Lise-Meitner-Strasse 1

82152 Krailling

für das folgende Produkt / die folgenden Produkte:

Bigger 5 (SPC/LVT), Elements XTended (SPC/LVT)

Alligator (WPC)

Stonehenge (SPC)

QNG – Schadstoffvermeidung in Baumaterialien (Version 1.3, Korrekturfassung v. 14.09.2023)

Nach Position 2.2 *Elastische Bodenbeläge – auch mehrschichtige Systeme:*

Das Produkt/ Erzeugnis/ mindestens ein Teilerzeugnis enthält Stoffe der Kandidatenliste (Version zum Ausstellungsdatum) oberhalb 0,1 Massen%:	nein
Einhaltung des AgBB-Schemas	ja
Reproduktionstoxische Phthalate < 0,10 %	ja
keine Zinn-, Cadmium- und Bleistabilisatoren	ja

EU- Taxonomie Verordnung Zur Bestätigung der Konformität gemäß Anlage C zur Vermeidung und Verminderung der Umweltverschmutzung gemäß der Delegierten Verordnung (EU) 2023/2486 der Kommission vom 27. Juni 2023.

Das Produkt/Erzeugnis/mindestens ein Teilerzeugnis enthält weitere CMR-Stoffe der Kategorie 1A oder 1B, die nicht auf der Kandidatenliste stehen, oberhalb von 0,1 Massen-% in mindestens einem Teilerzeugnis :	Nein
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Chlorparaffine (SCCPs + MCCPs + LCCPs) < 0,1 %	Ja
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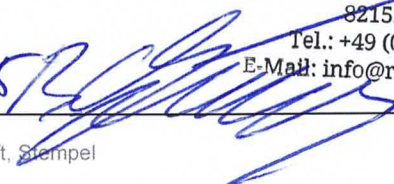
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Krailling 6.7.2023 

Ort, Datum, Unterschrift, Stempel

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